(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 30 September 2004 (30.09.2004)

PCT

(10) International Publication Number WO 2004/083988 A3

(51) International Patent Classification7:

G06F 9/445

(21) International Application Number:

PCT/GB2004/000915

(22) International Filing Date: 4 March 2004 (04.03.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 0306461.5

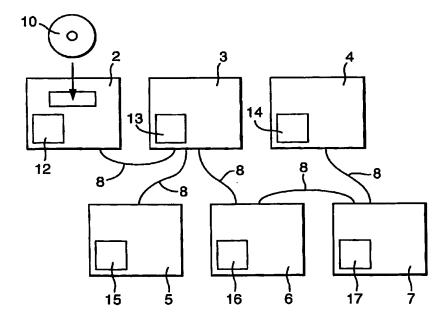
20 March 2003 (20.03.2003)

- (71) Applicant (for all designated States except US): OX-FORD SEMICONDUCTOR LIMITED [GB/GB]; 25 Milton Park, Abingdon, Oxfordshire OX14 4SH (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): ORAEE, Jalil [GB/GB]; Oxford Semiconductor Limited, 25 Milton Park, Abingdon, Oxfordshire OX14 4SH (GB).

- (74) Agents: MERRYWEATHER, Colin, Henry et al.; J.A. Kemp & Co., 14 South Square, Gray's Inn, London WC1R 5JJ (GB).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

[Continued on next page]

(54) Title: UPGRADING SOFTWARE OF NETWORKED DEVICES



(57) Abstract: Upgrading of devices in a network, such as an IEEE (1394) network, of digitally connected devices, such as AV devices, is performed using a reproduction device for reproducing a recording medium insertable in the reproduction device. A controller for controlling the reproduction device is arranged, on insertion in the reproduction device of a recording medium, to detect if the inserted recording medium has recorded thereon upgrade software for upgrading a target device in the network. If so, the controller causes the target device to be upgraded by the upgrade software.

2004/083988 A3

WO 2004/083988 A3



Published:

- with international search report
- (88) Date of publication of the international search report: 24 March 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

intional Application No i/GB2004/000915

	A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G06F9/445						
According to International Patent Classification (IPC) or to both national classification and IPC							
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)							
IPC 7	G06F	,,					
Documentat	ion searched other than minimum documentation to the extent that su	ich documents are included in the fields se	arched				
Electronic d	ata base consulted during the international search (name of data bas	e and, where practical search terms used					
	ternal, IBM-TDB, WPI Data, INSPEC, C		,				
E70-111	ternar, iom-rob, wri bata, insite, e	OF ENDEX					
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category °	Citation of document, with indication, where appropriate, of the rele	vant passages	Relevant to claim No.				
Х	US 6 230 319 B1 (GOLDMAN PHILLIP 8 May 2001 (2001-05-08) column 2, line 9 - line 12; figur	1-11					
	column 2, line 29 - line 36 column 4, line 65 - column 5, lin column 8, line 8 - line 19						
A	EP 1 197 839 A (HEWLETT PACKARD C 17 April 2002 (2002-04-17) paragraphs '0006!, '0064!; figur	1-11					
Further documents are listed in the continuation of box C. Patent family members are tisted in annex.							
Special categories of cited documents:							
consi	ent defining the general state of the art which is not dered to be of particular relevance document but published on or after the international	cited to understand the principle or theory underlying the invention					
filing date "L" document which may throw doubts on priority claim(s) or		X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is alken alone					
O docum	n is cited to establish the publication date of another on or other special reason (as specified) nent referring to an oral disclosure, use, exhibition or	"Y" document of particular relevance; the cannot be considered to involve an in document is combined with one or m	ventive step when the ore other such docu-				
other means "P" document published prior to the international filing date but later than the priority date claimed		ments, such combination being obvious to a person skilled in the art. 8. document member of the same patent family					
Date of the actual completion of the international search		Date of mailing of the international search report					
9 December 2004		16/12/2004					
Name and	mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer					
NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Müller, T					

INTERNATIONAL SEARCH REPORT

Information on patent family members

ational Application No

Patent document ited in search report	Publication date		Patent family member(s)	Publication date
JS 6230319 B1	08-05-2001	US	5940074 A	17-08-1999
		US	6034689 A	07-03-2000
		US	5918013 A	29-06-1999
		AU	5261298 A	10-06-1998
		EP	0848341 A2	17-06-1998
		JP	10198571 A	31-07-1998
		WO	9823059 A2	28-05-1998
		US	6023268 A	08-02-2000
		US	6259442 B1	10-07-2001
		US	6473099 B1	29-10-2002
		US	2002054069 A1	09-05-2002
		AU	3139197 A	05-01-1998
		EP	0811940 A2	10-12-1997
		JΡ	10171842 A	26-06-1998
		KR	274135 B1	15-12-2000
		ÜS	2001003823 A1	14-06-2001
		WO	9747143 A2	11-12-1997
		ÜŠ	6133913 A	17-10-2000
		ÜŠ	6496205 B1	17-12-2002
		ÜS	6008836 A	28-12-1999
		ÜŠ	6005563 A	21-12-1999
•		ÜŠ	5945991 A	31-08-1999
		ÜŠ	2002021308 A1	21-02-2002
		ÜS	5974461 A	26-10-1999
		ĀŪ	3375197 A	05-01-1998
		EP	0811939 A2	10-12-1997
		JΡ	10228437 A	25-08-1998
		KR	274738 B1	15-12-2000
		US	6647421 B1	11-11-2003
		ÜS	6505232 B1	07-01-2003
		WO	9746943 A1	11-12-1997
		ÜS	6141693 A	31-10-2000
•		ÜS	2003014499 A1	16-01-2003
		ÜS	6330606 B1	11-12-2001
		ÜS	6311207 B1	30-10-2001
		ÜS	6332157 B1	18-12-2001
		บร	6308222 B1	23-10-2001
		ÜŠ	6073168 A	06-06-2000
		ÜS	5935207 A	10-08-1999
		บร	5996022 A	30-11-1999
		US	2002013812 A1	31-01-2002
EP 1197839 A	17-04-2002	EP	1197839 A2	17-04-2002
		JP	2002197183 A	12-07-2002